

Fig. 1

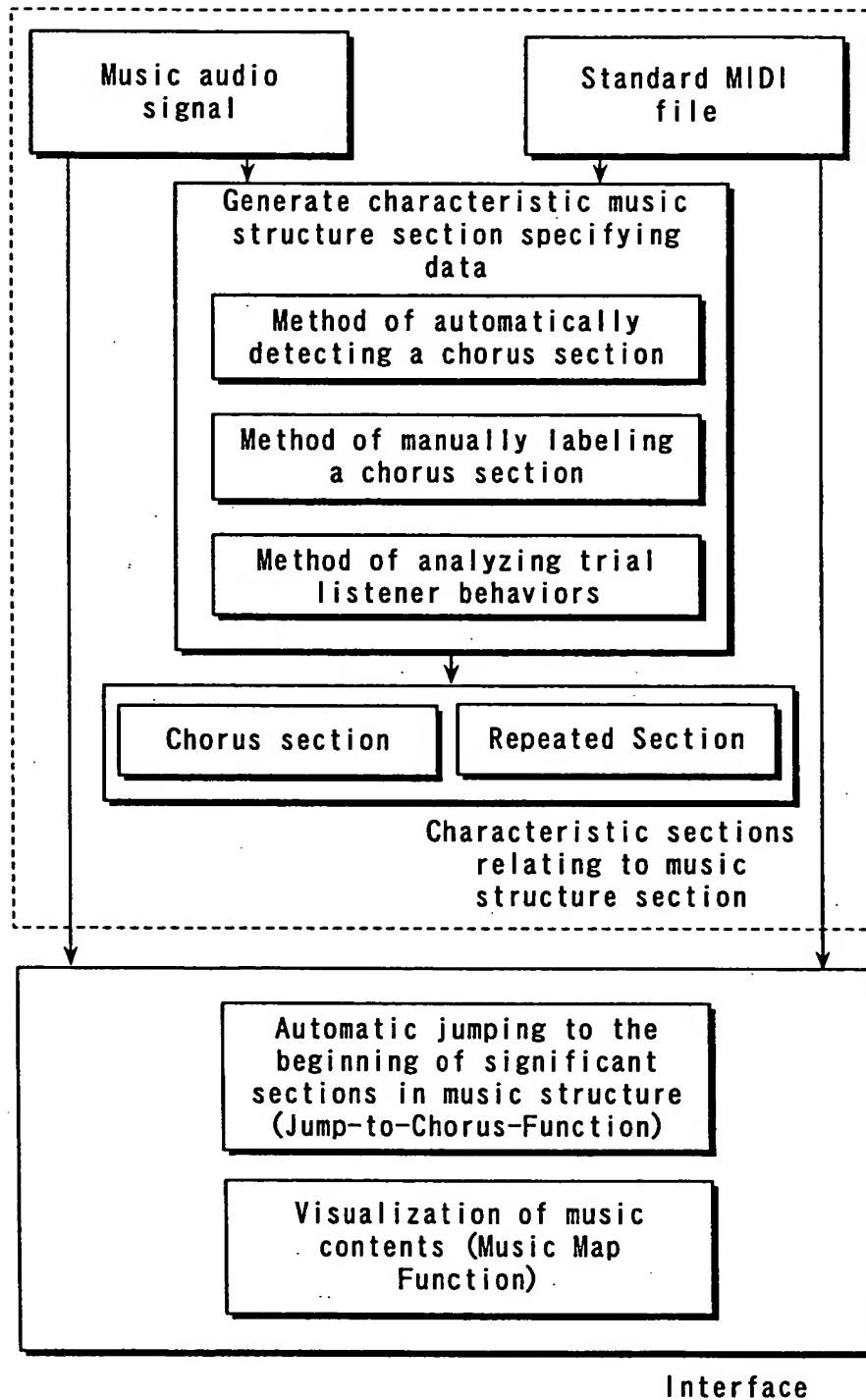


Fig.2

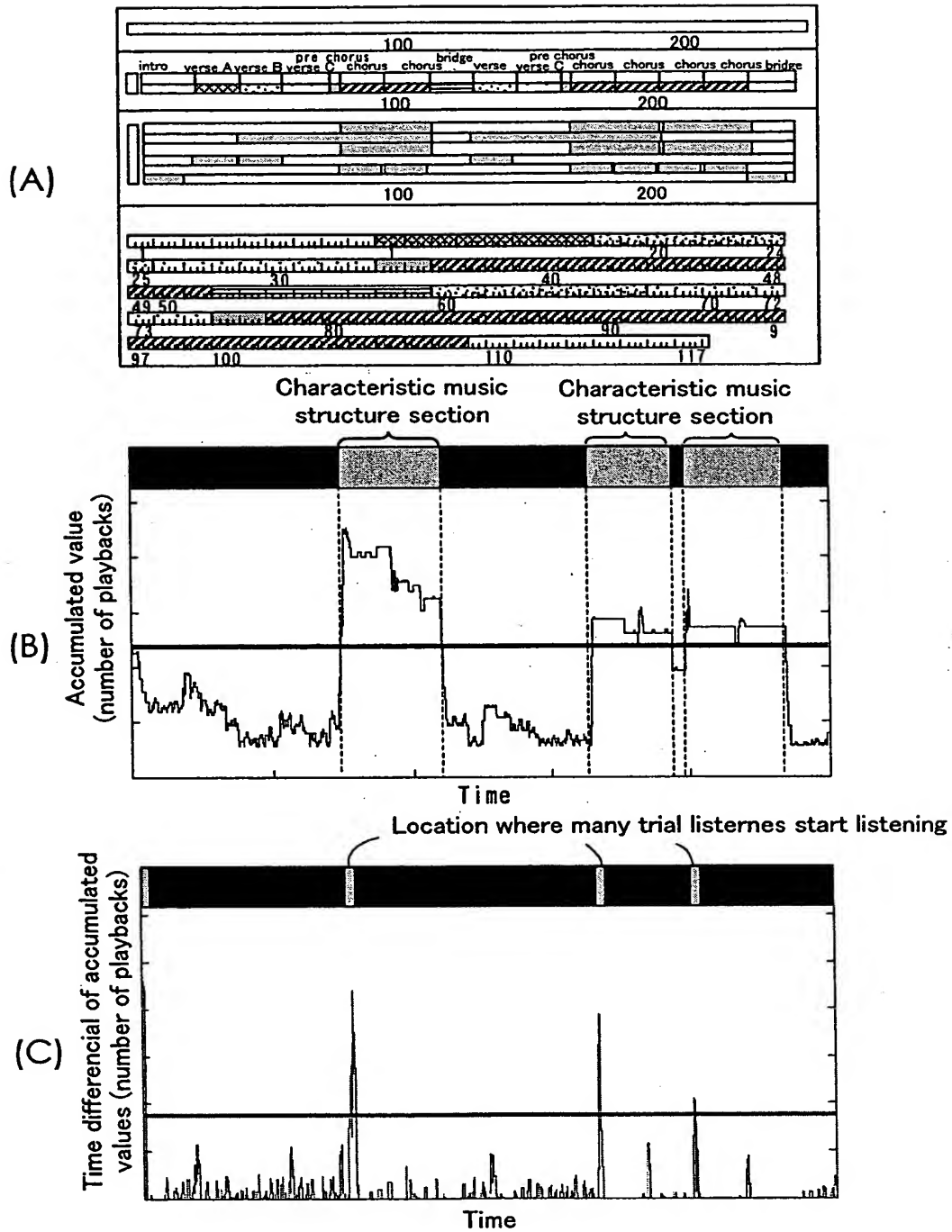
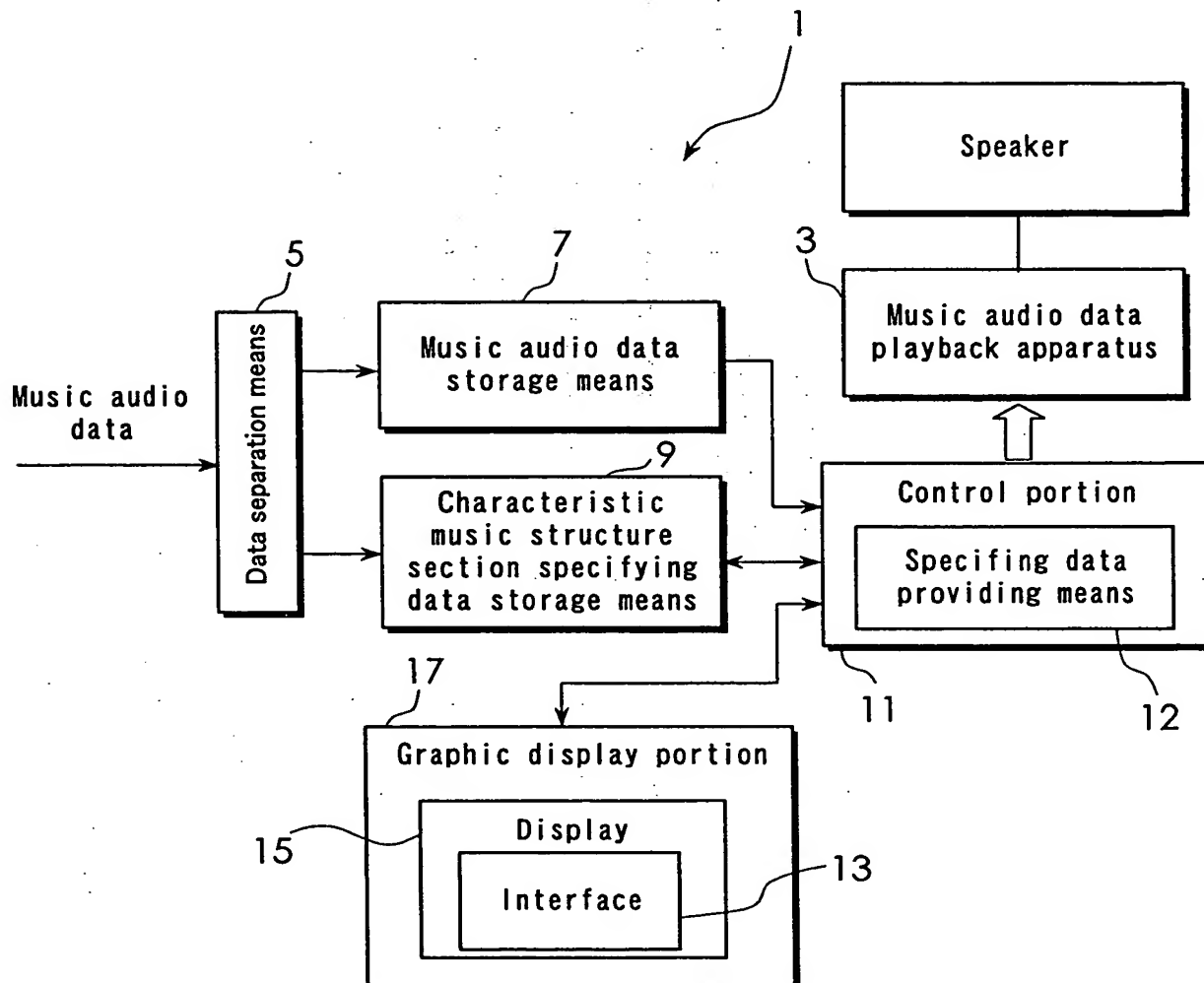


Fig.3



(A)

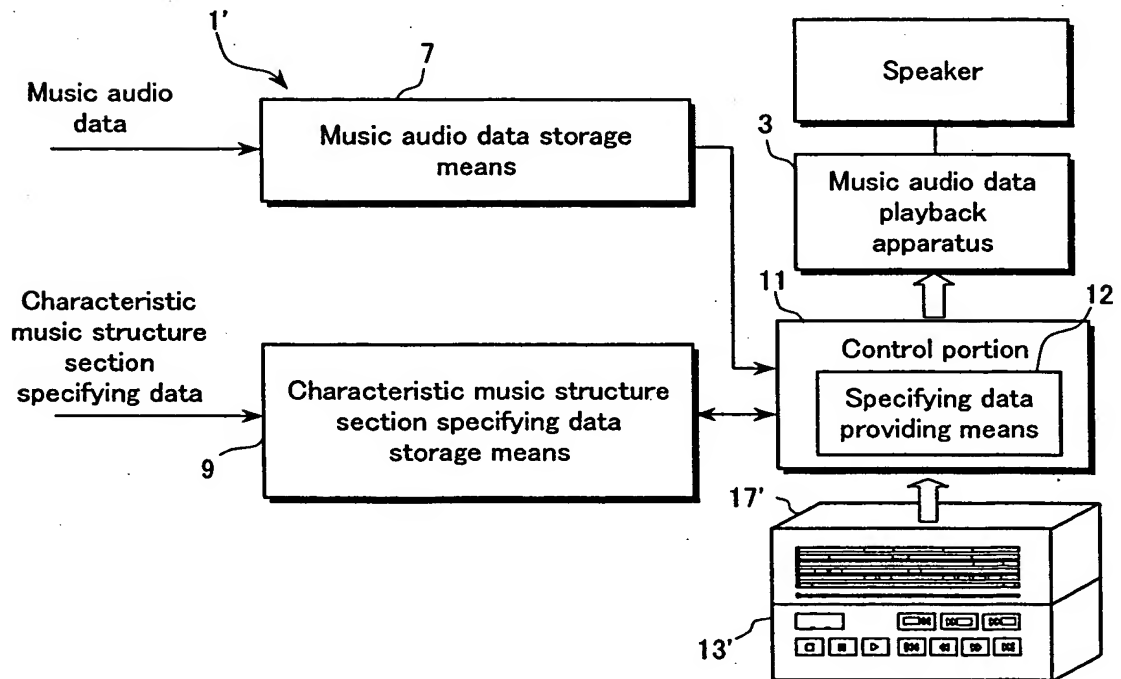


Fig.5

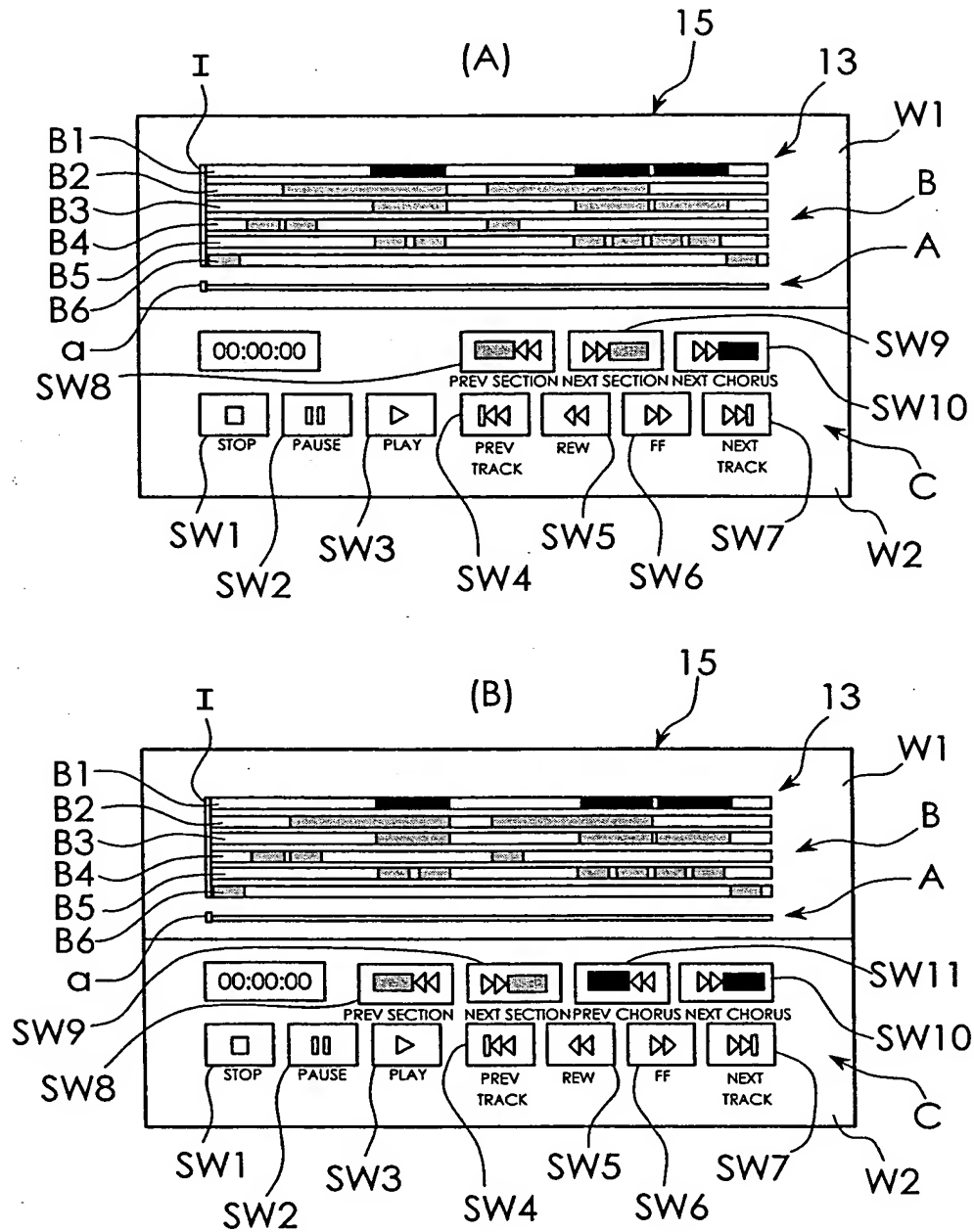


Fig.6

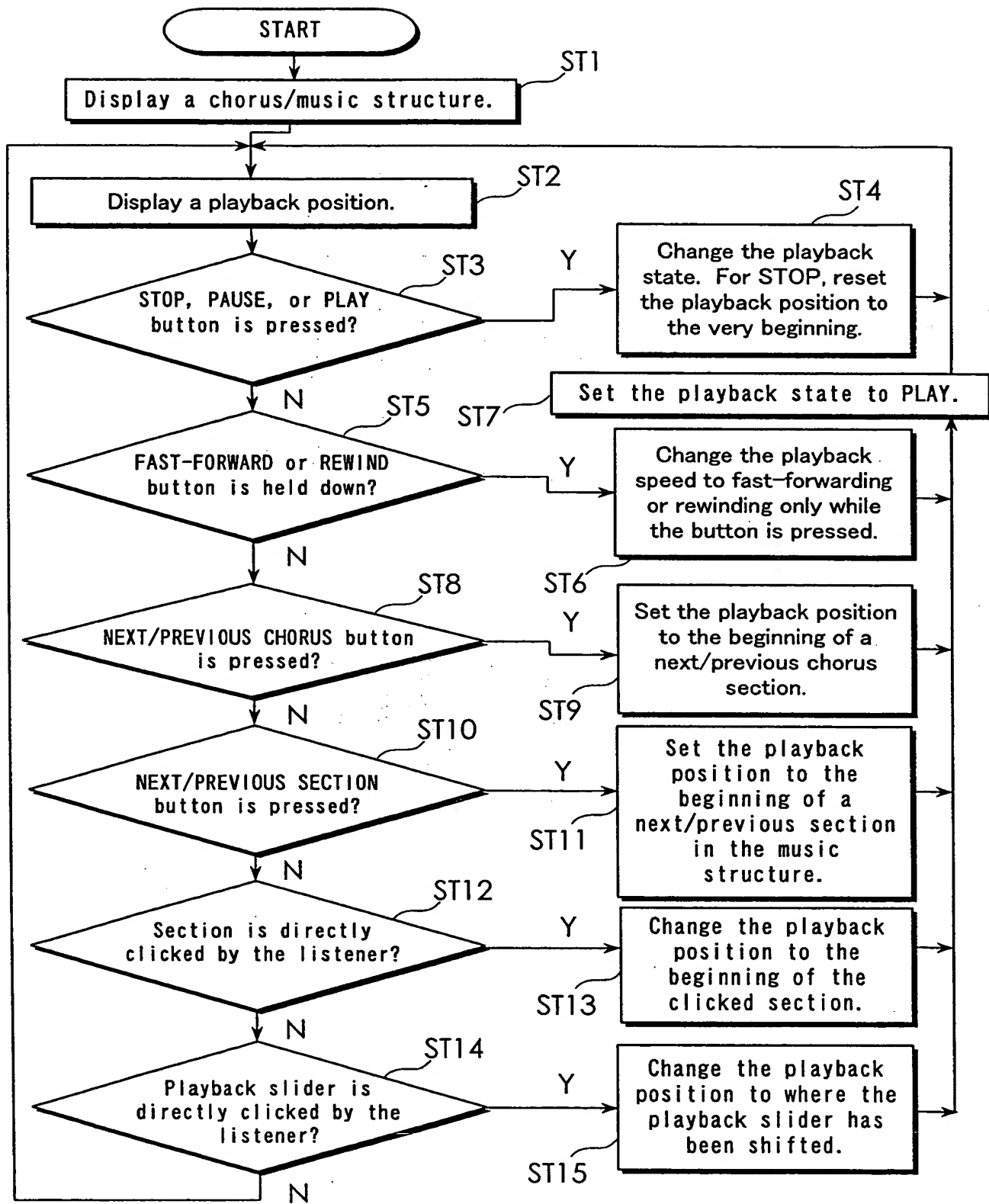


Fig.7

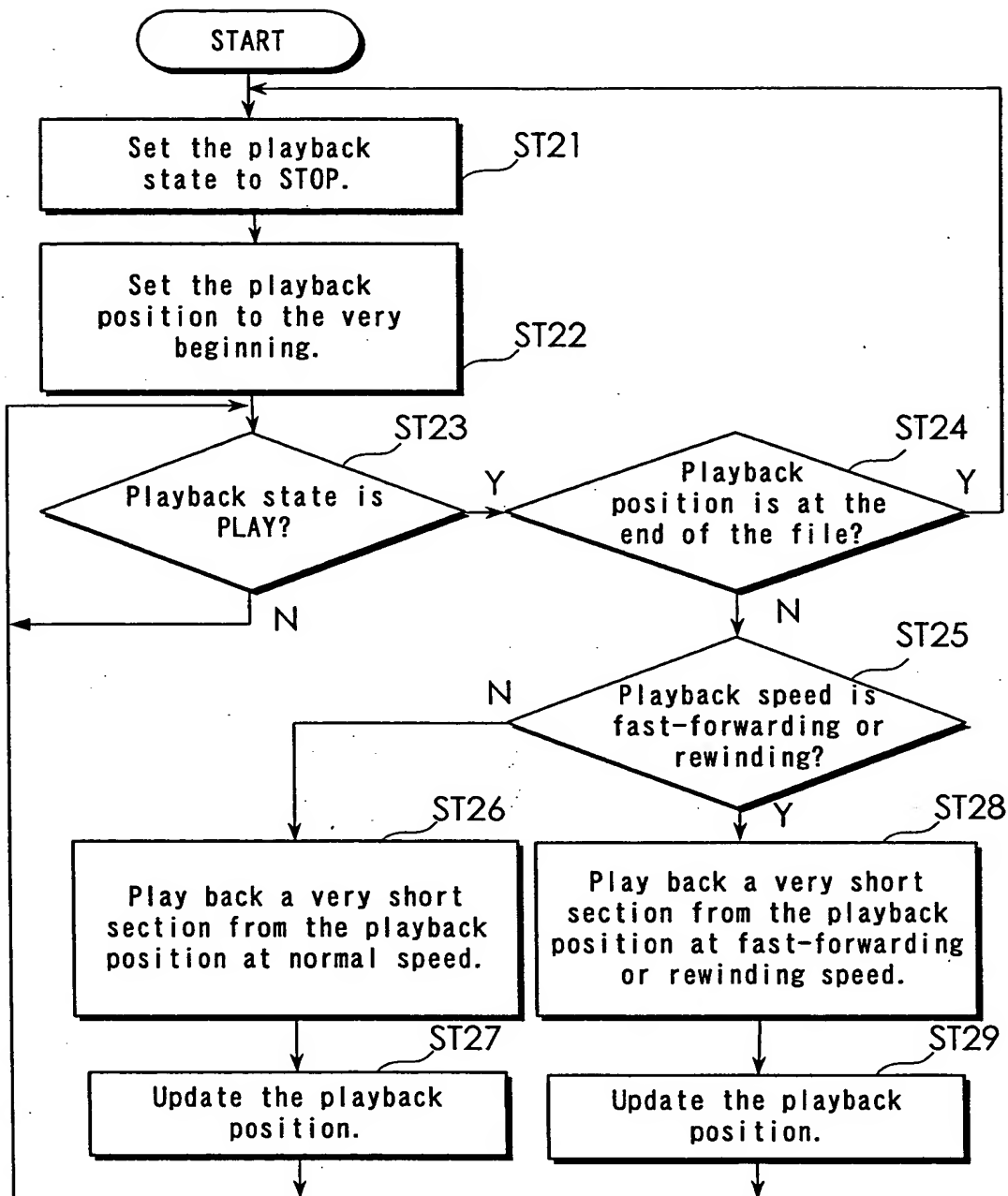


Fig.8

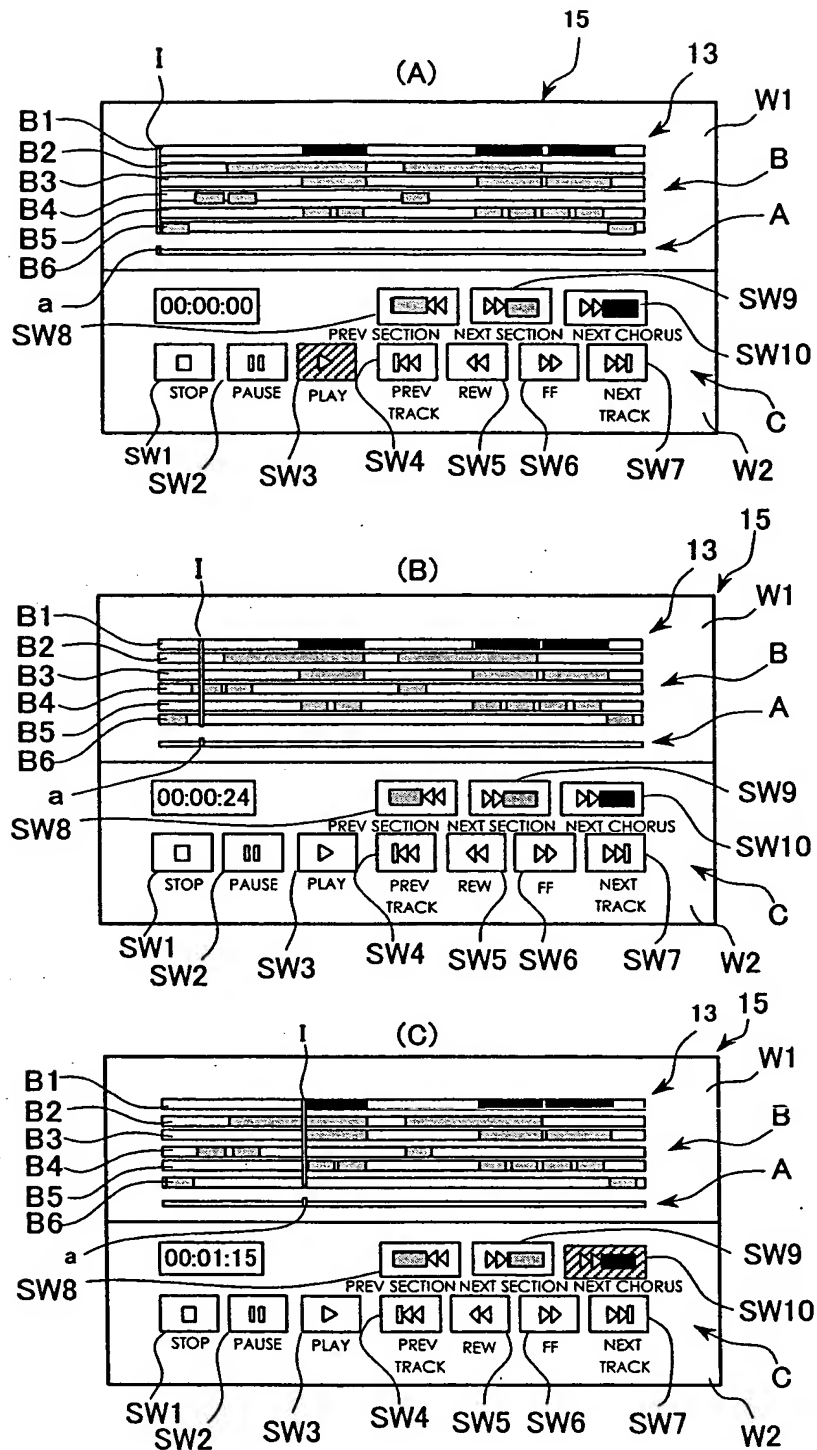




Fig.9

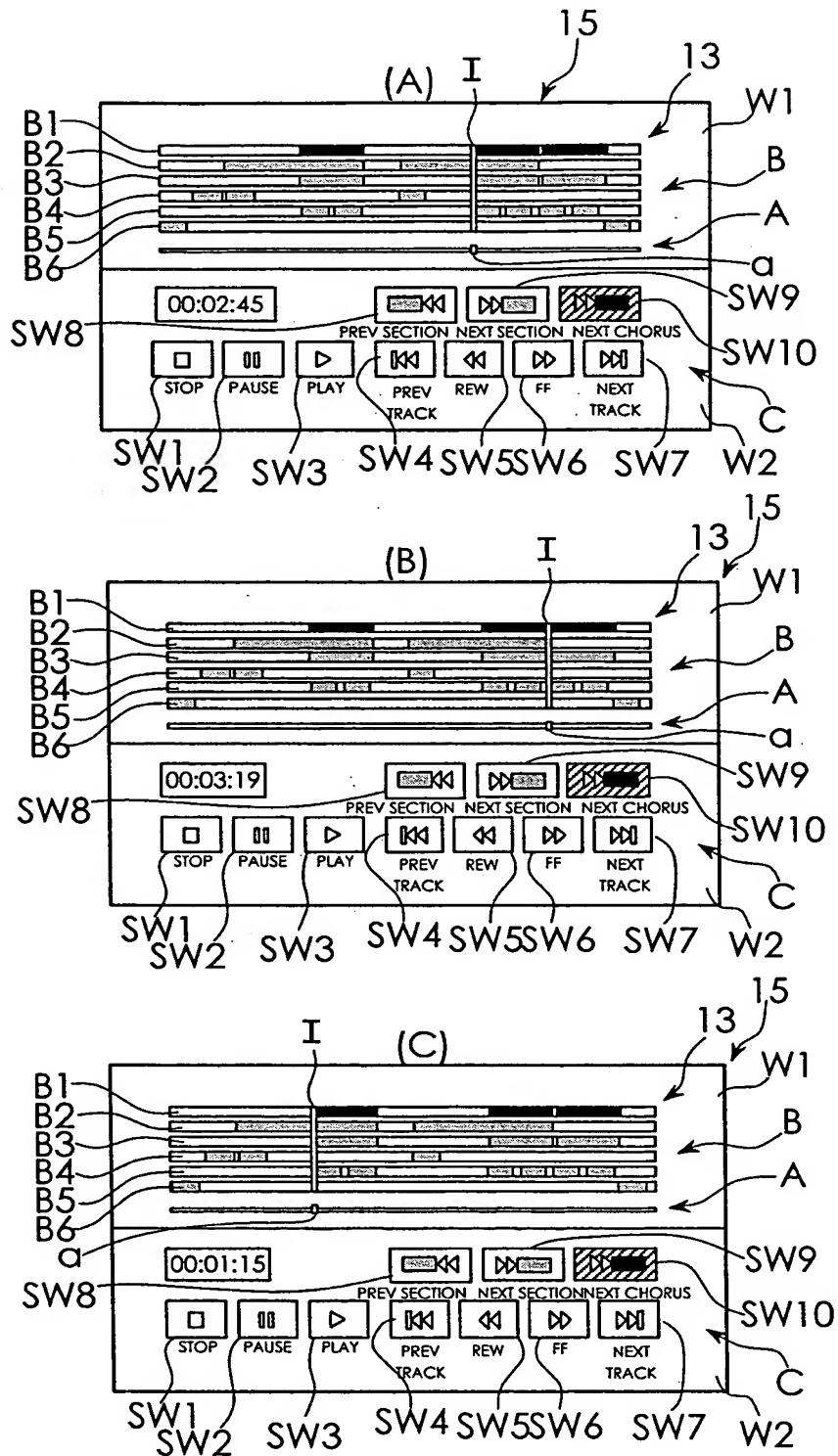


Fig.10

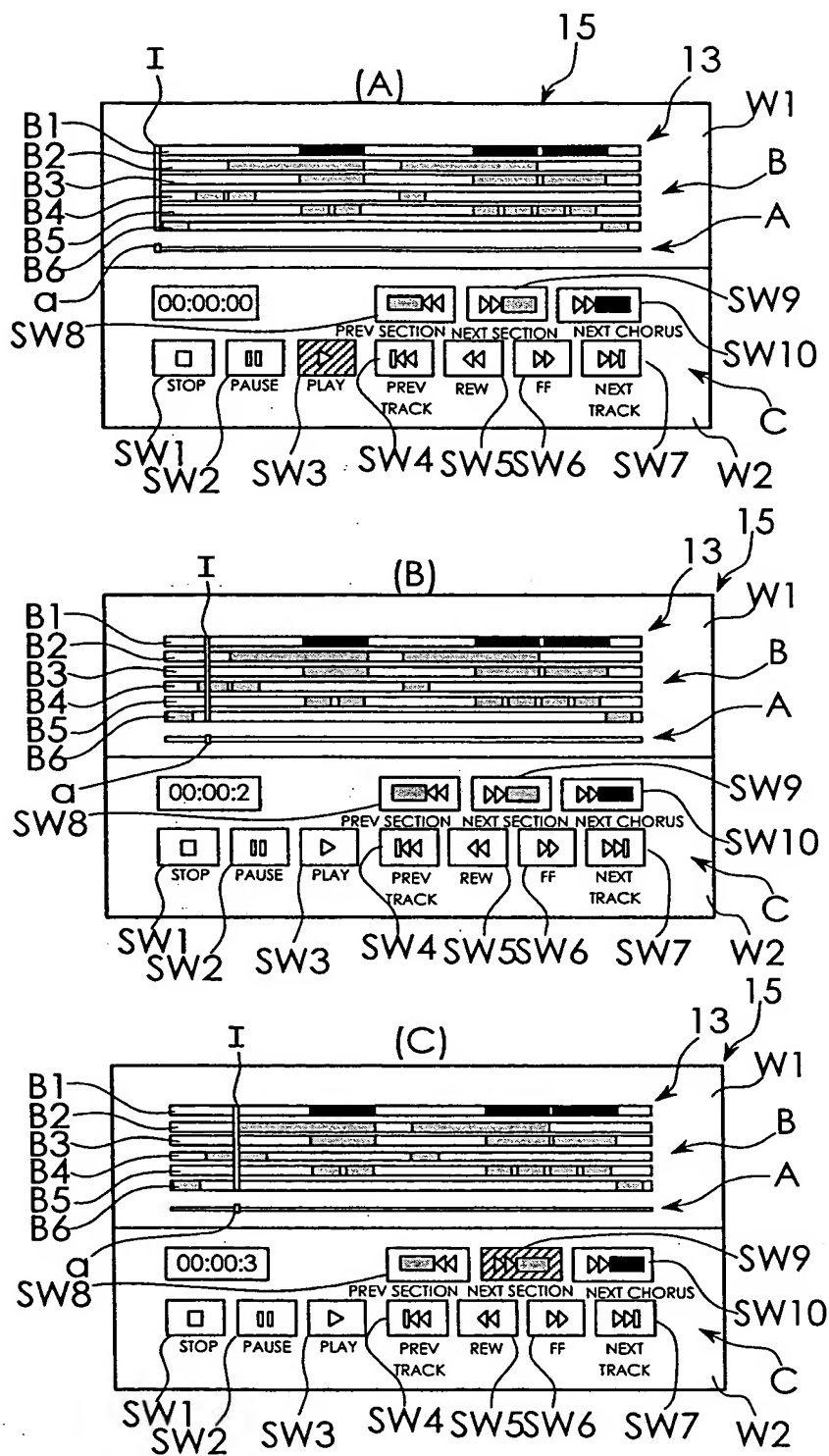


Fig. 11

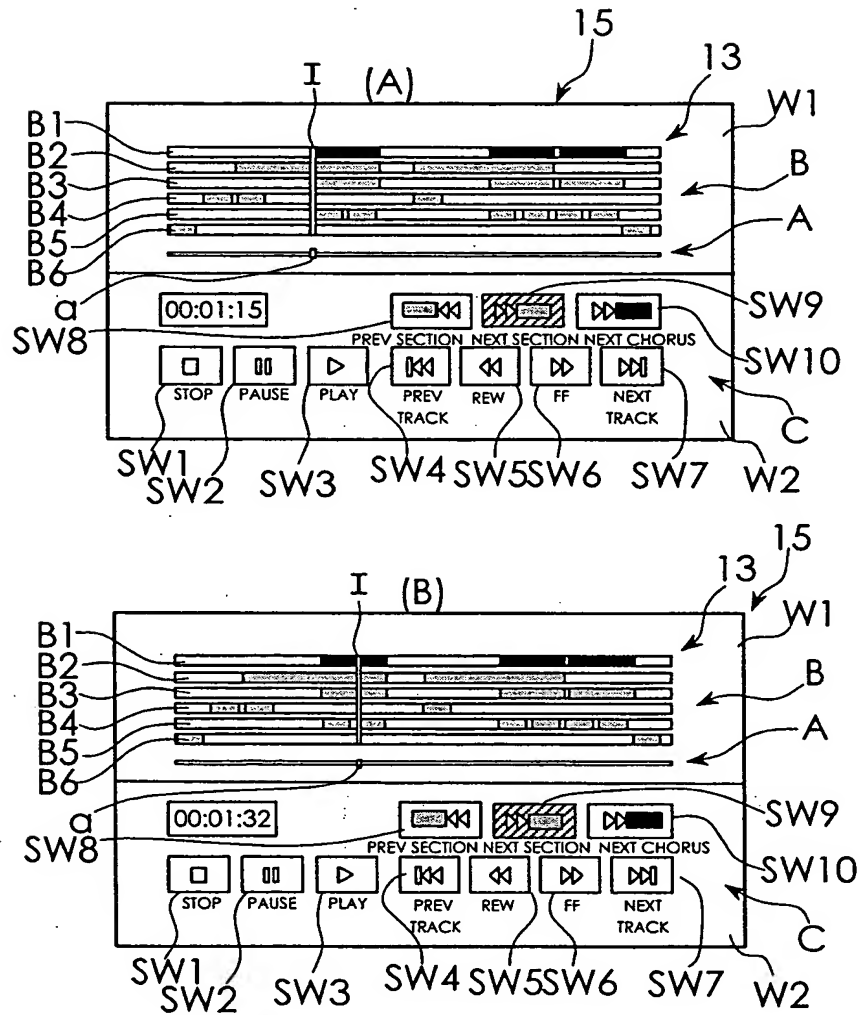


Fig.12

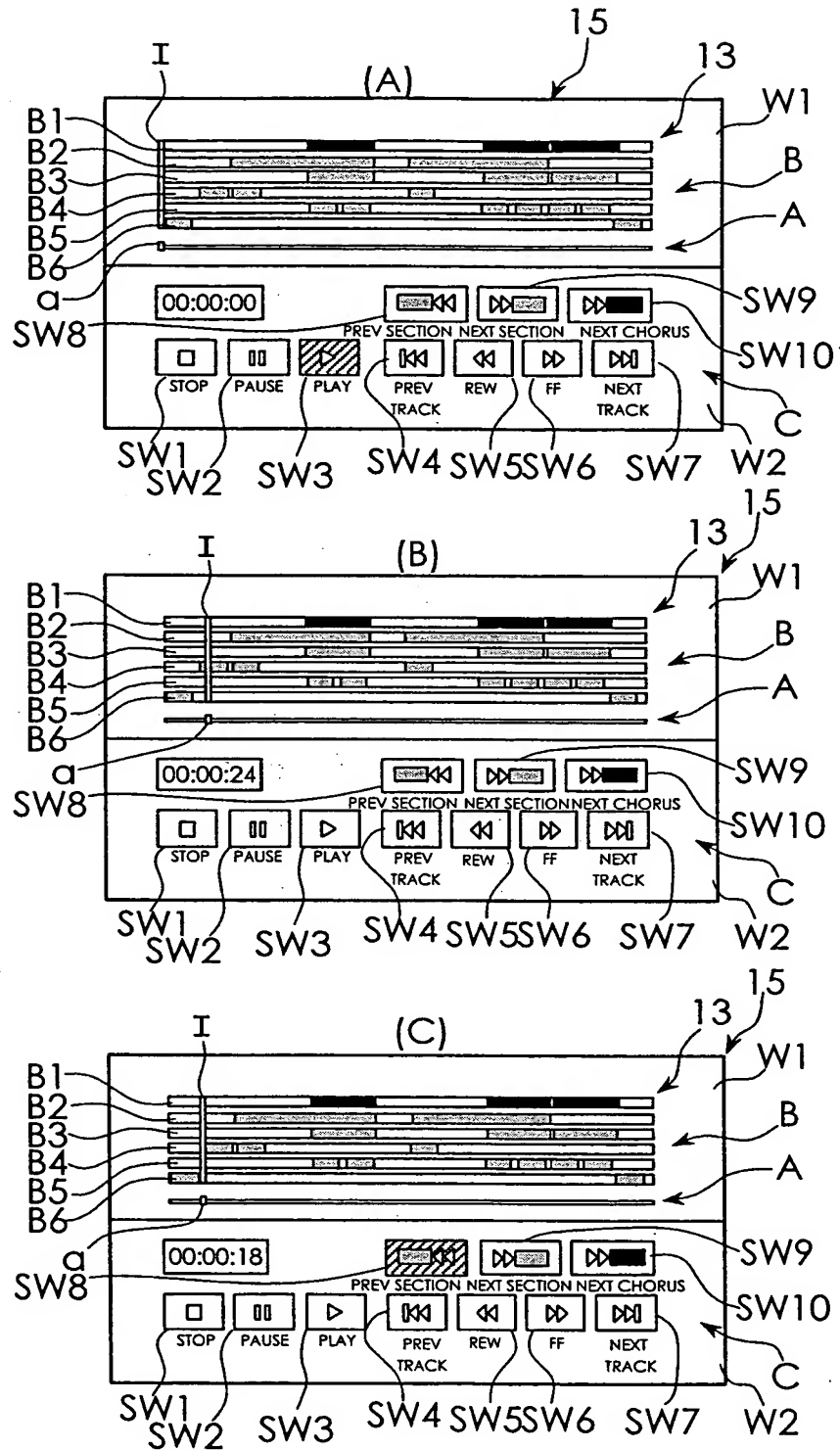


Fig.13

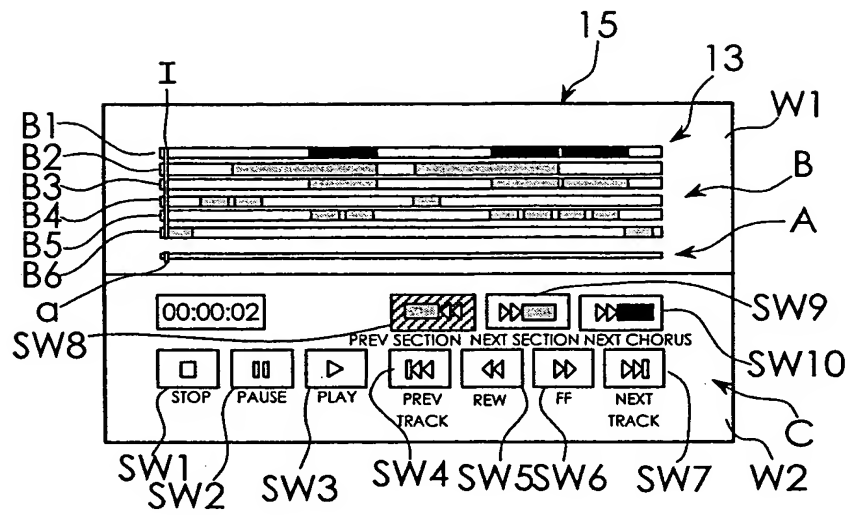


Fig. 14

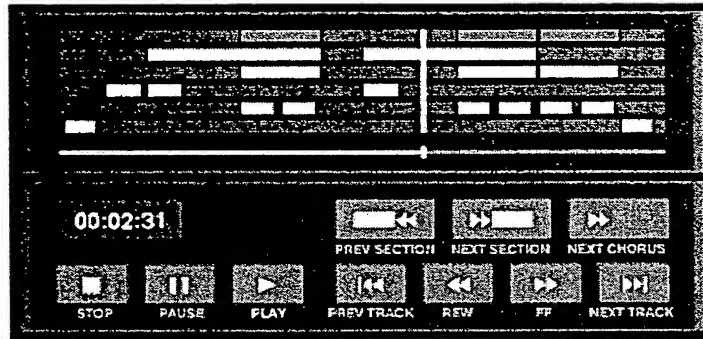


Fig.15

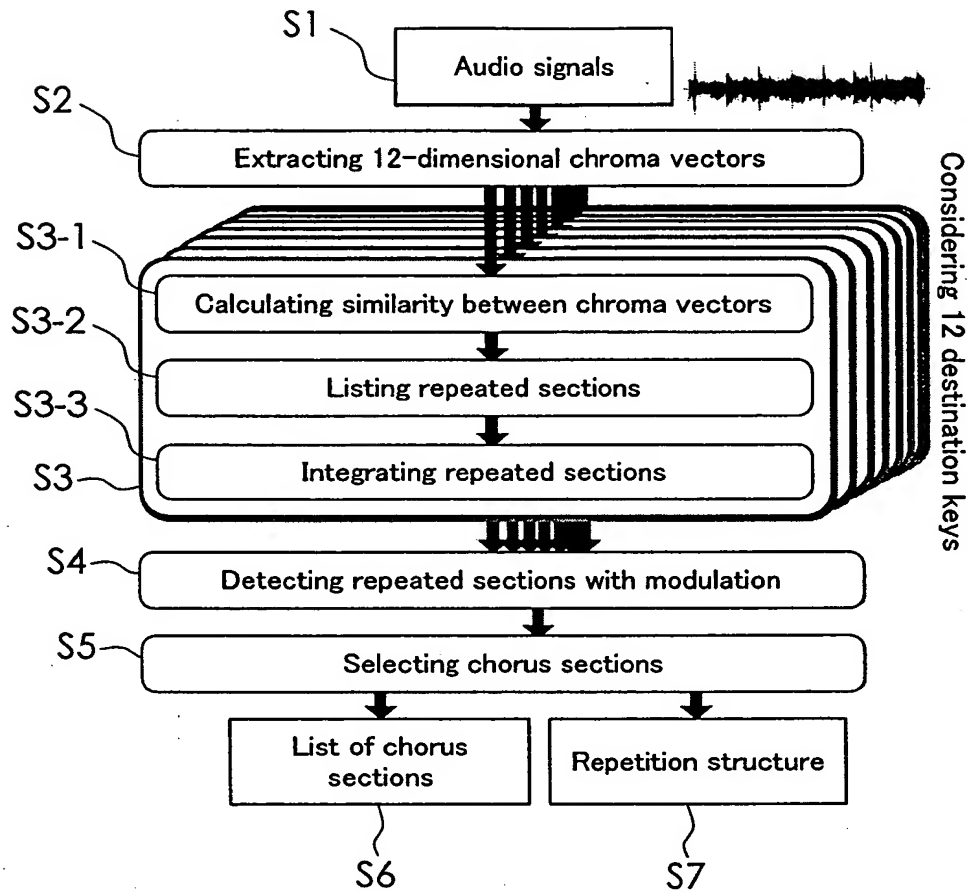


Fig. 16

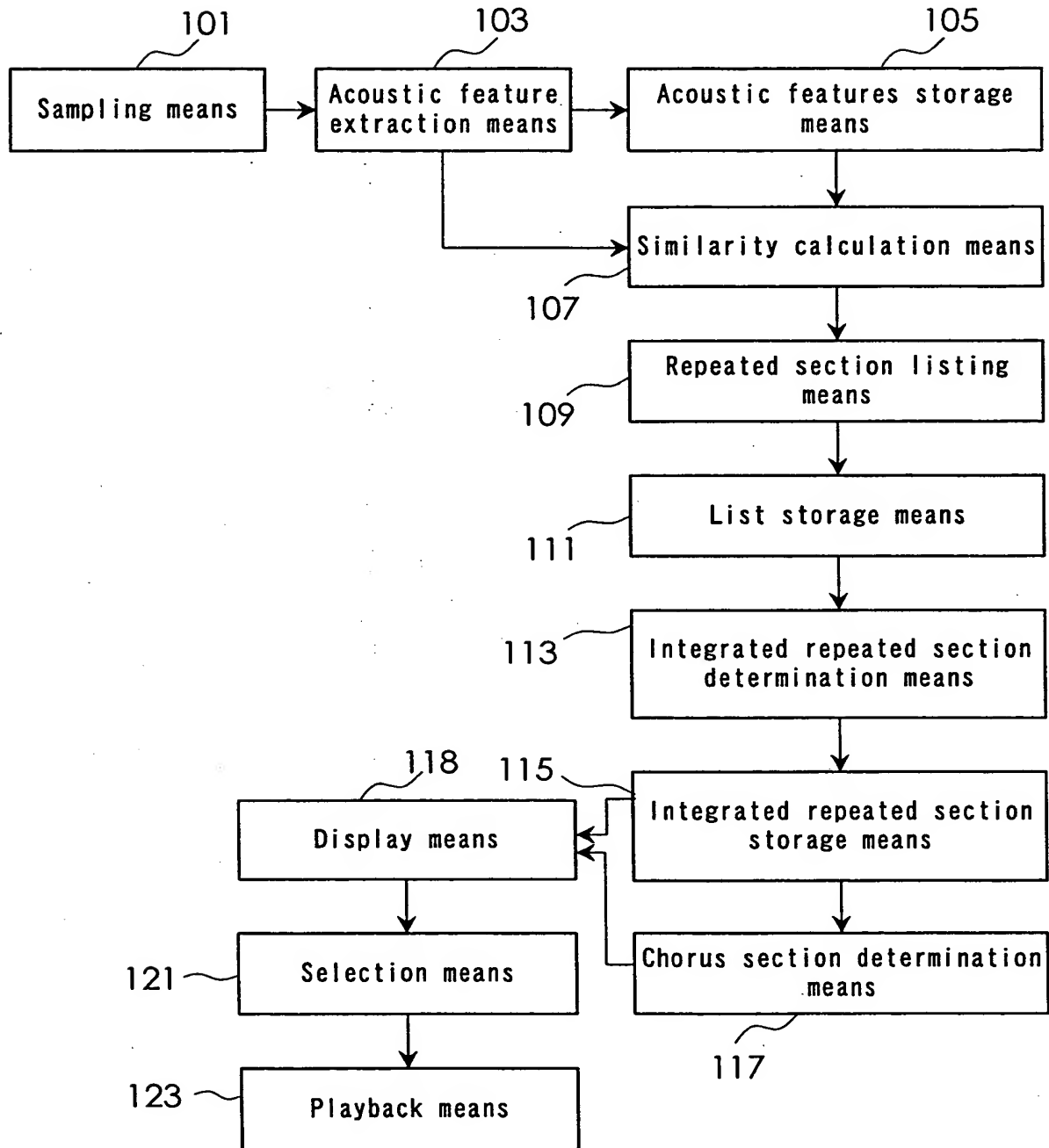




Fig.17

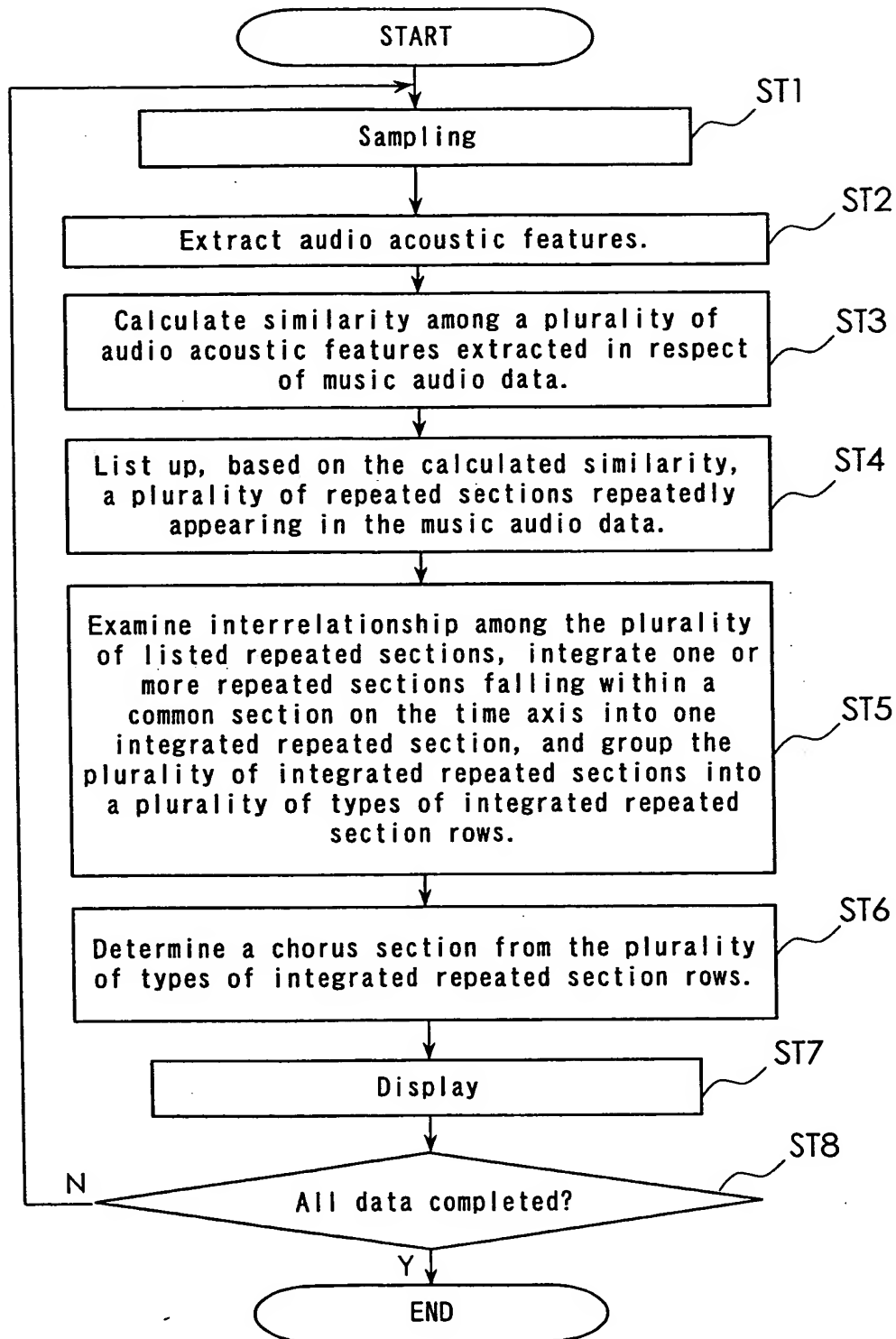


Fig.18

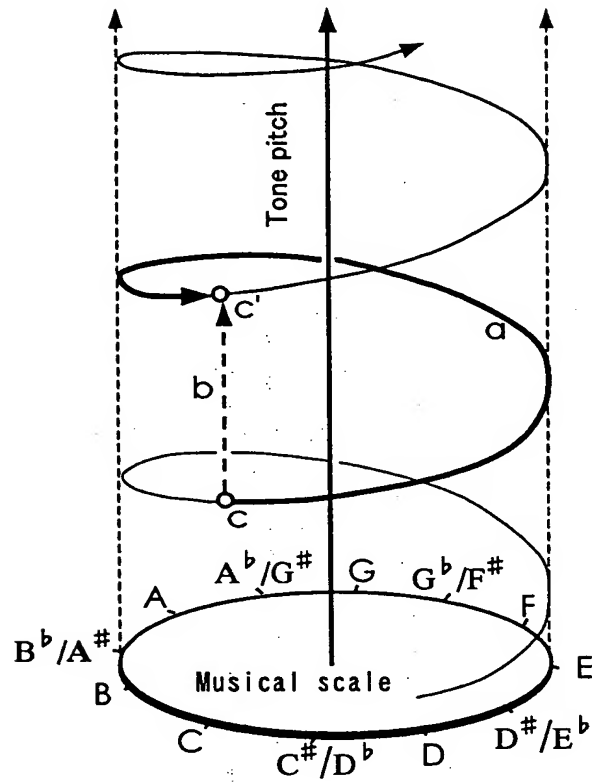
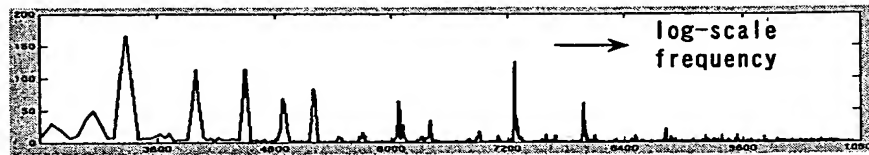


Fig.19

STFT power spectrum



130 Hz

8k Hz



Summation over 6 octaves

Chroma vector

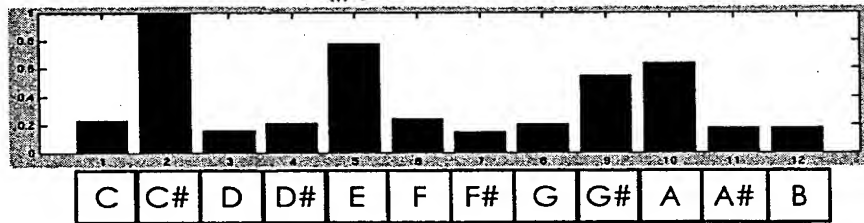


Fig.20

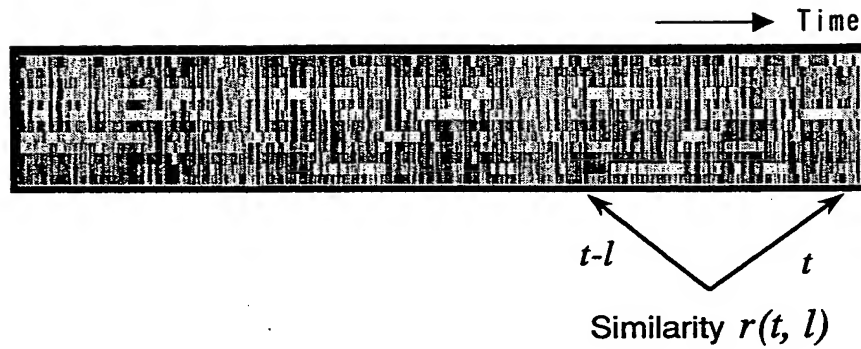


Fig.21

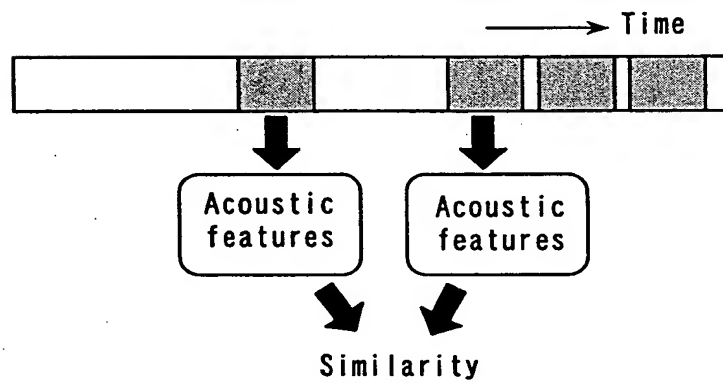


Fig.22

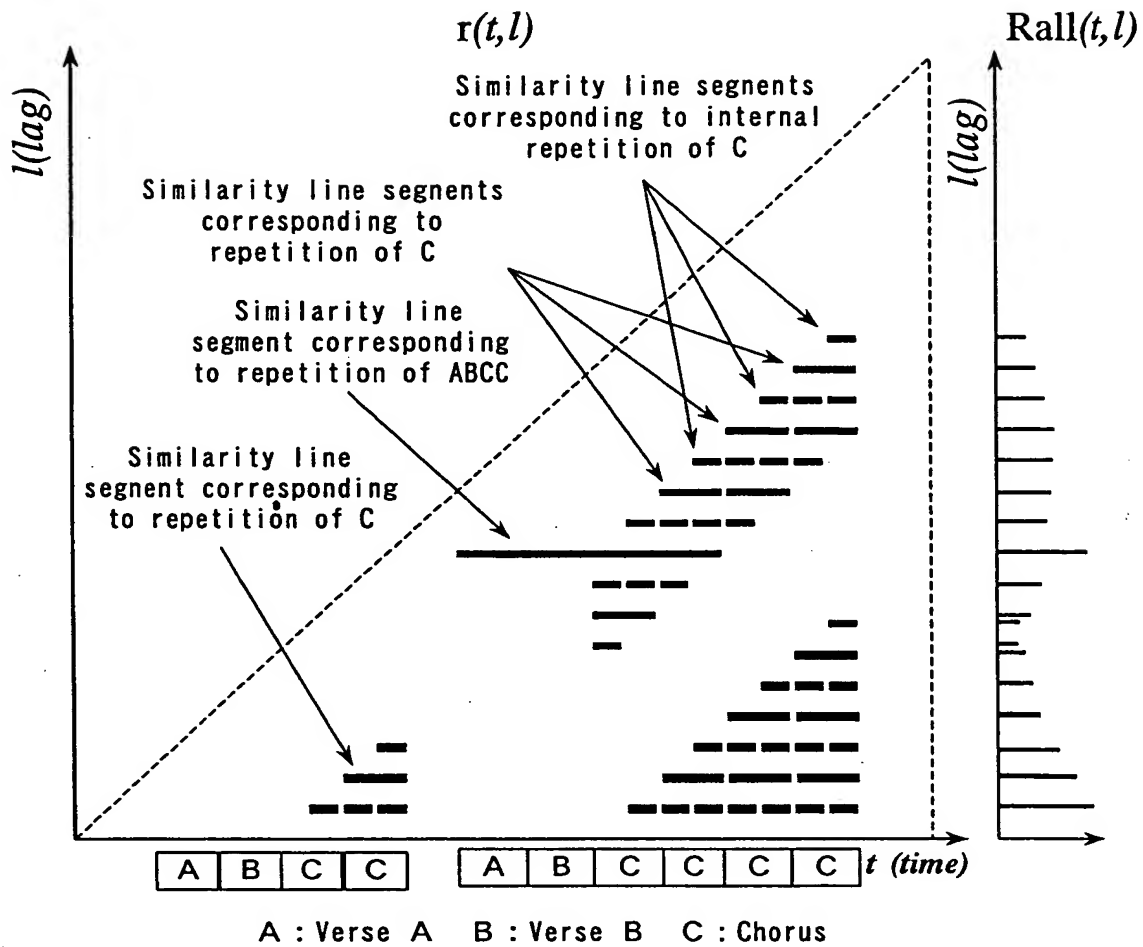
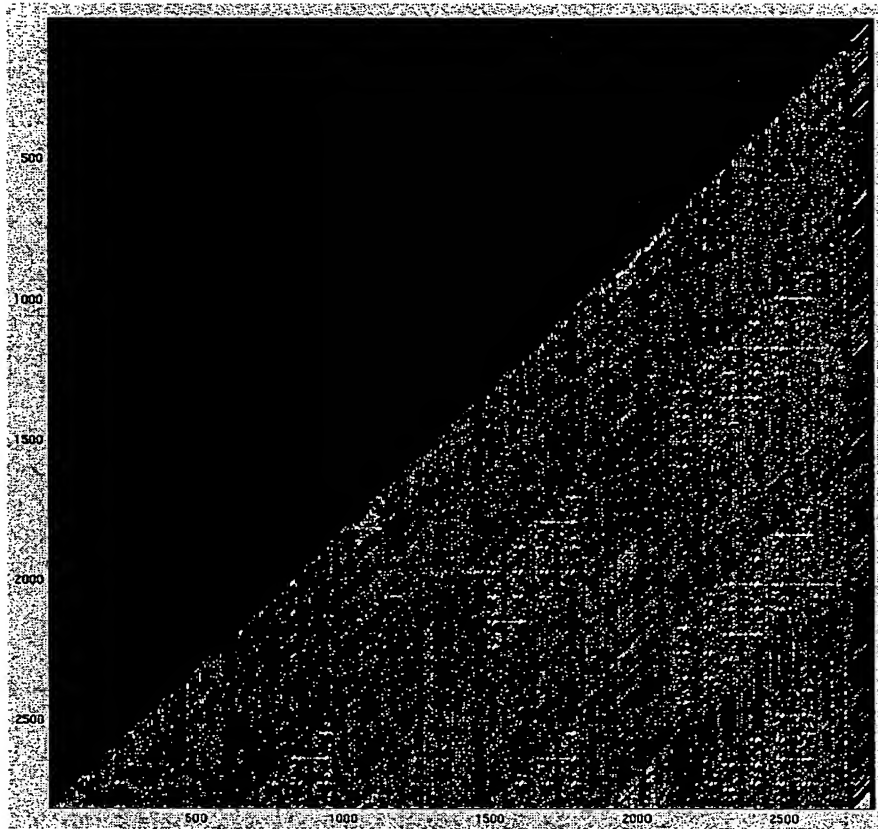


Fig.23



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Fig.24

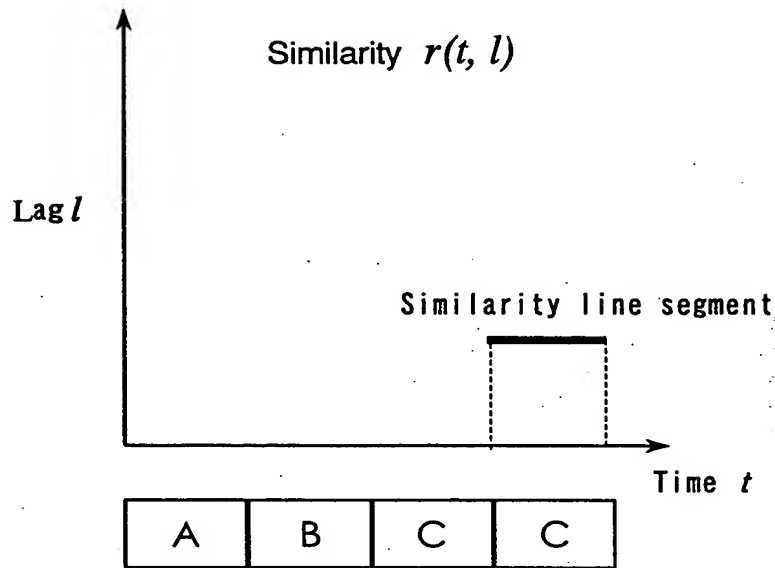


Fig.25

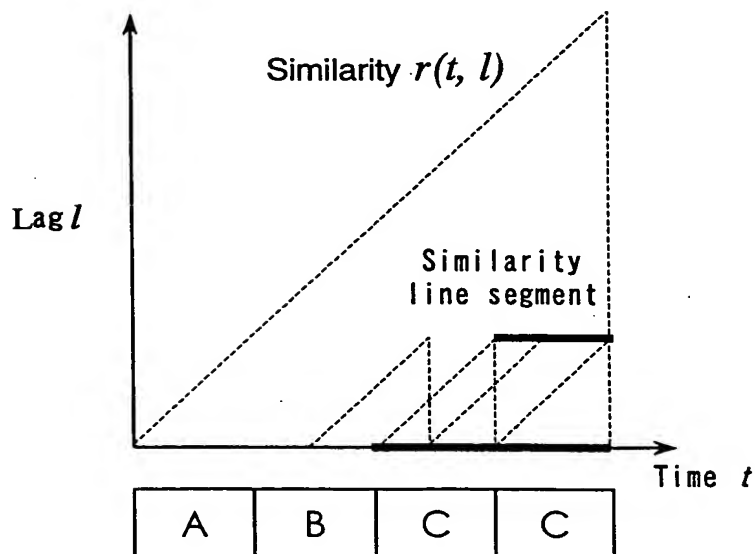


Fig.26

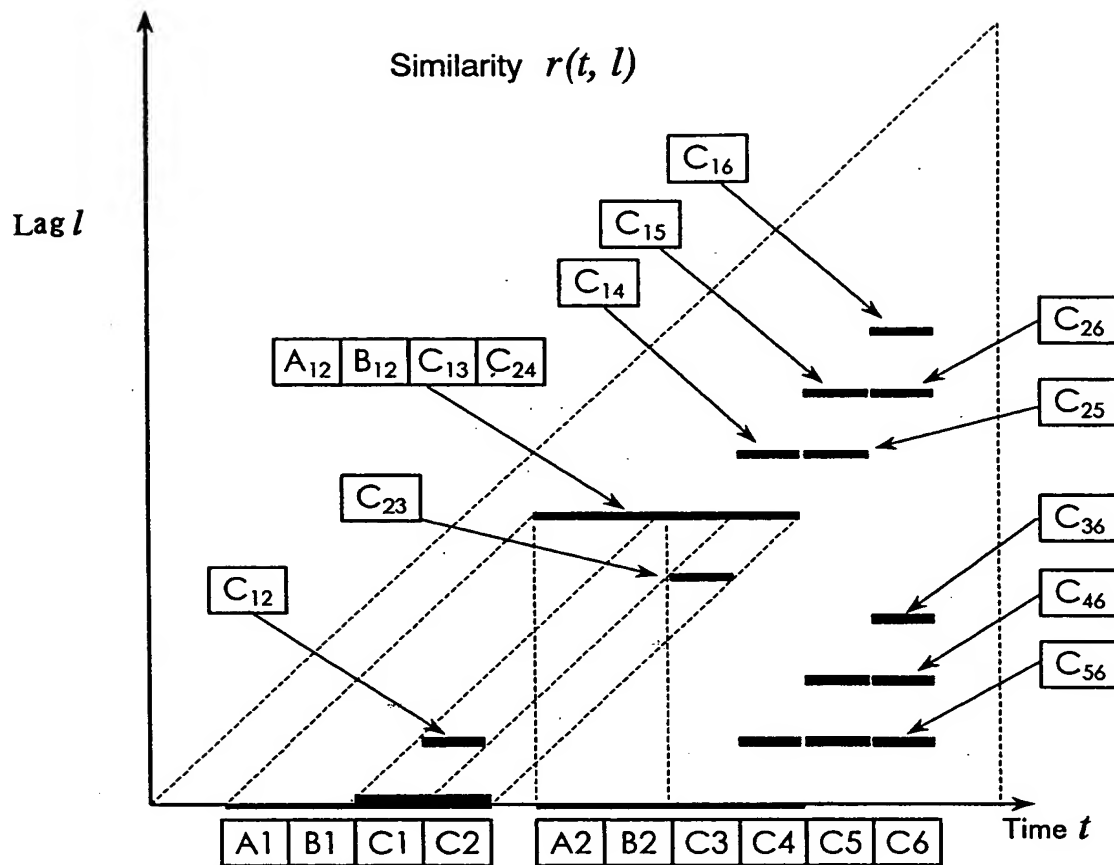




Fig.27

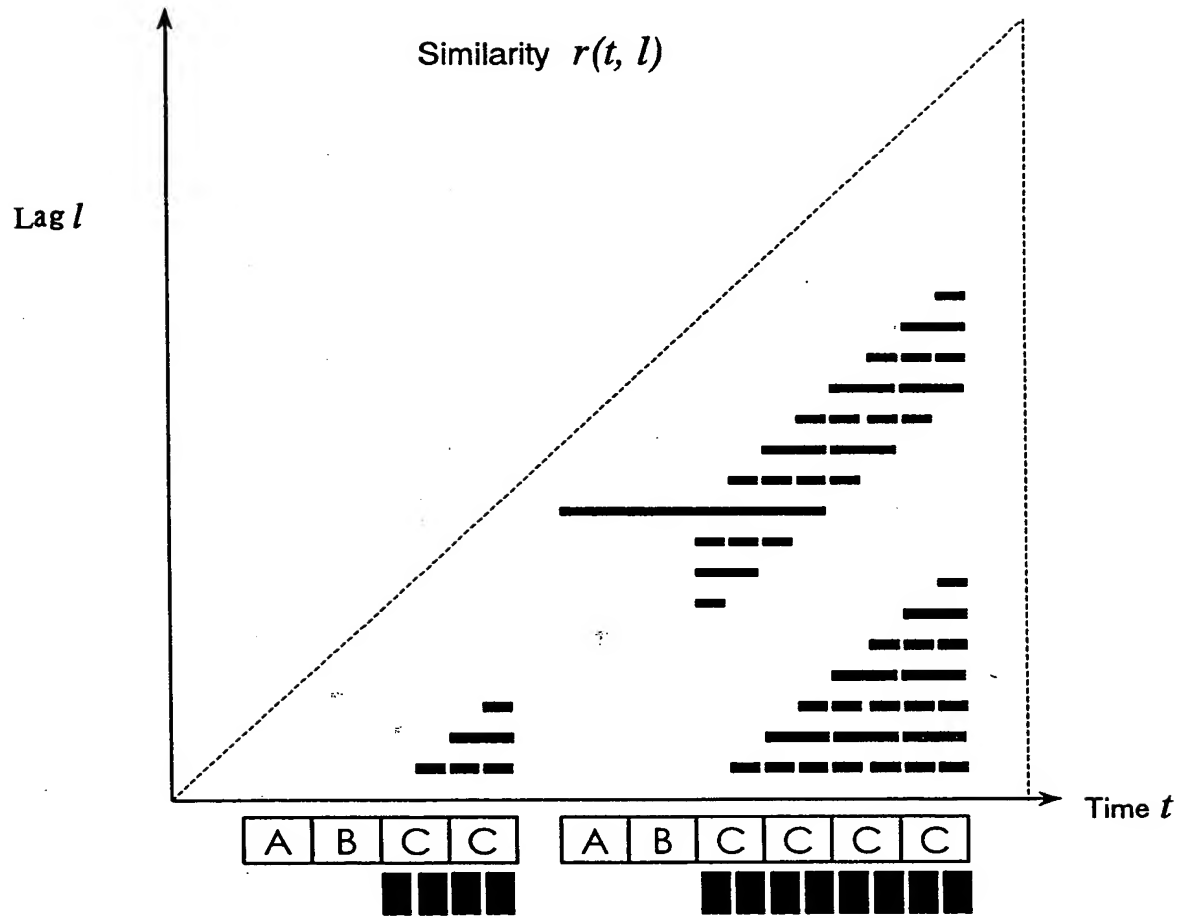


Fig.28

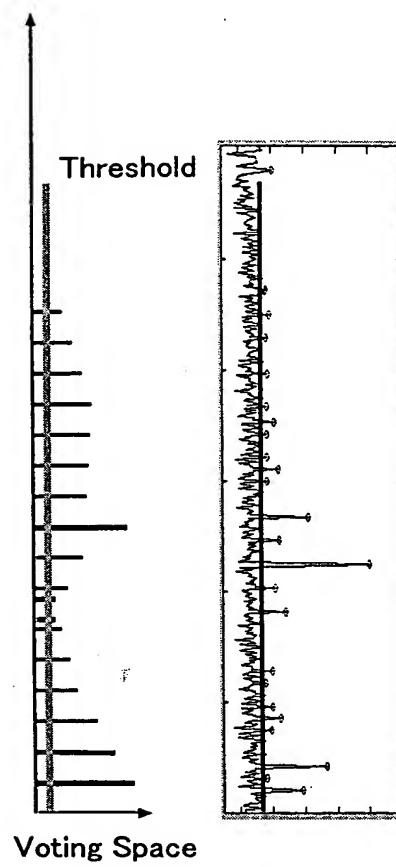


Fig.29

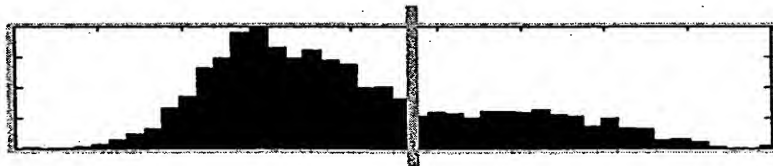


Fig.30

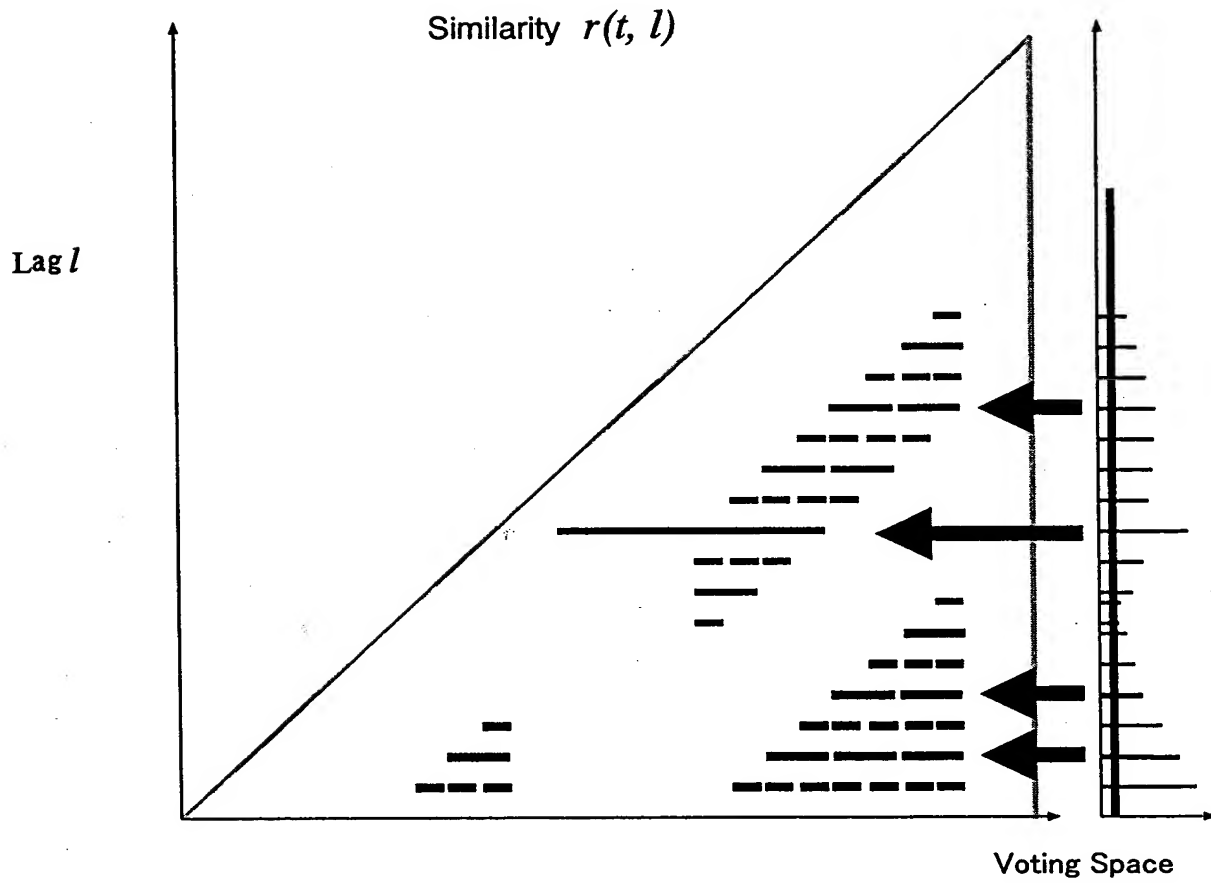


Fig.31

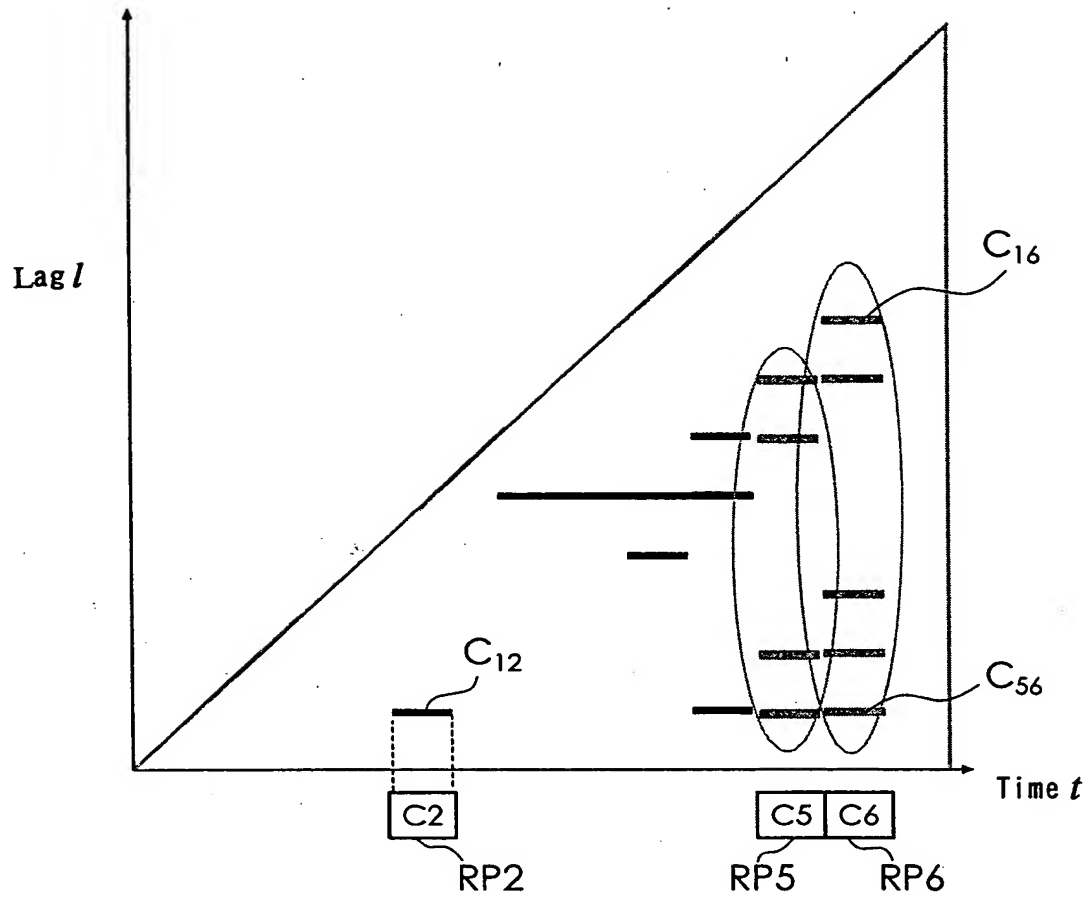


Fig.32

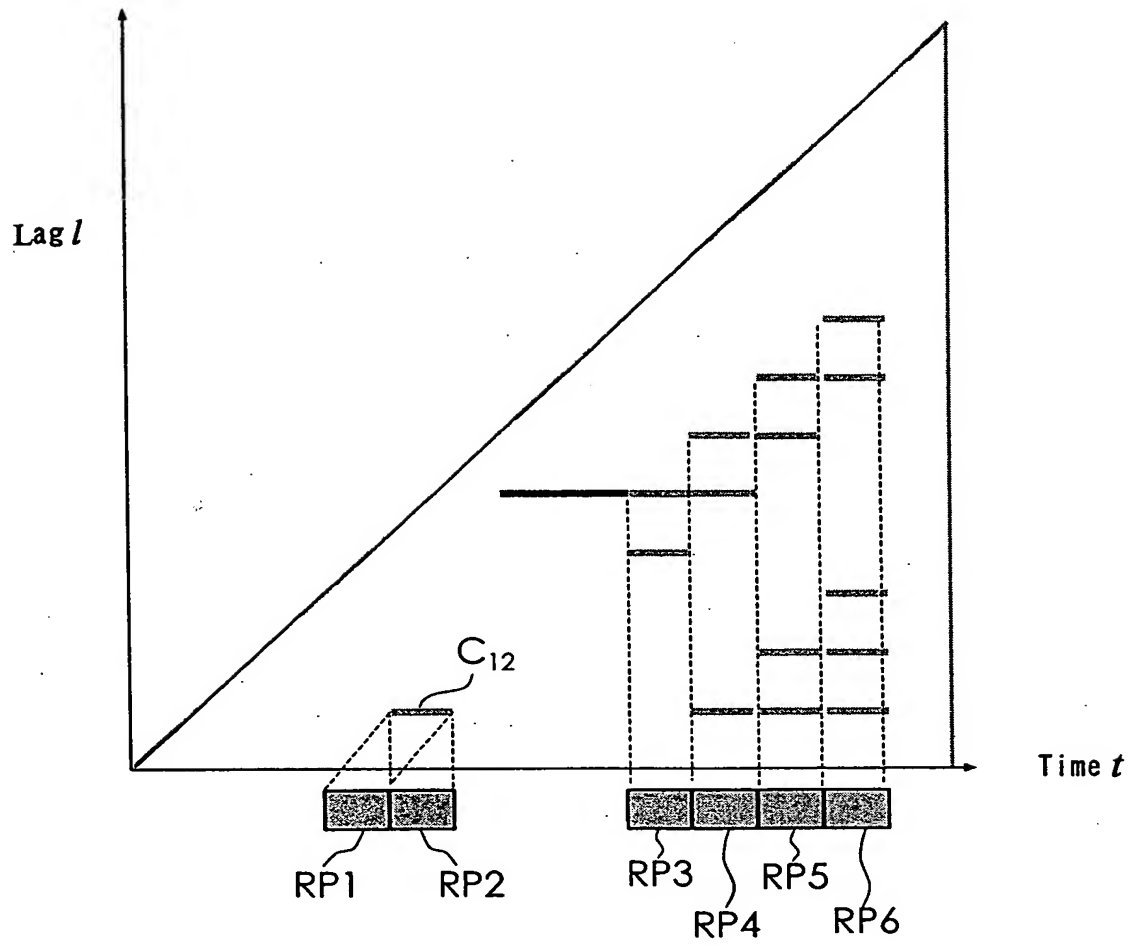


Fig.33

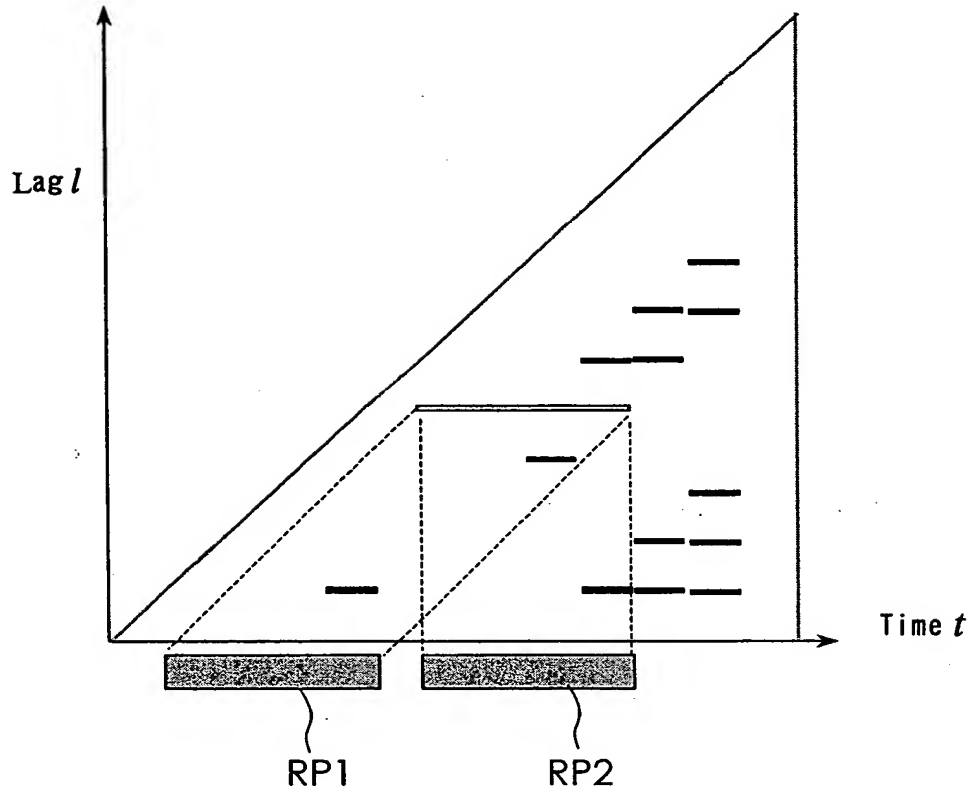


Fig.34

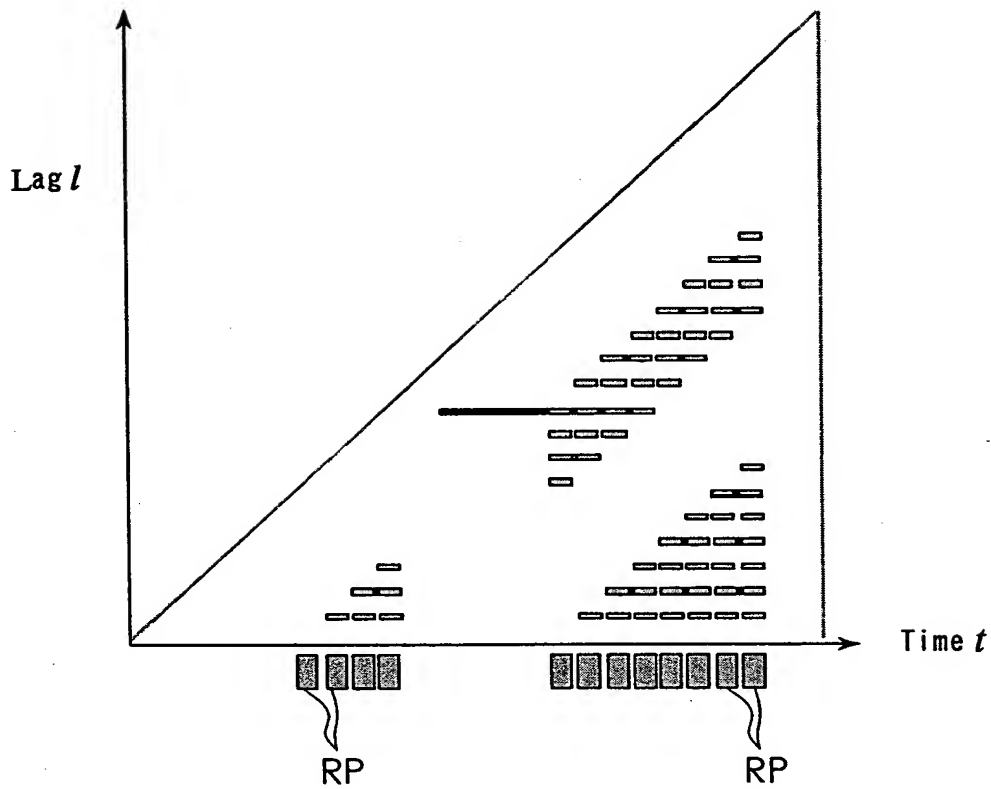


Fig.35

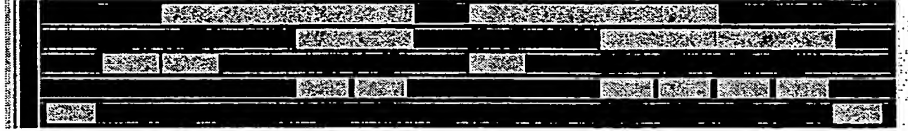
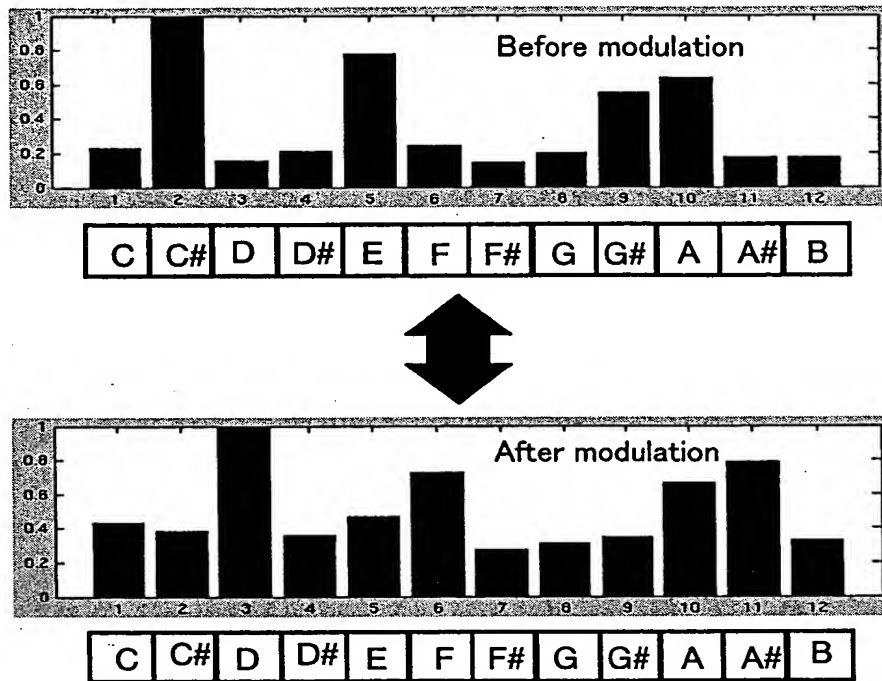


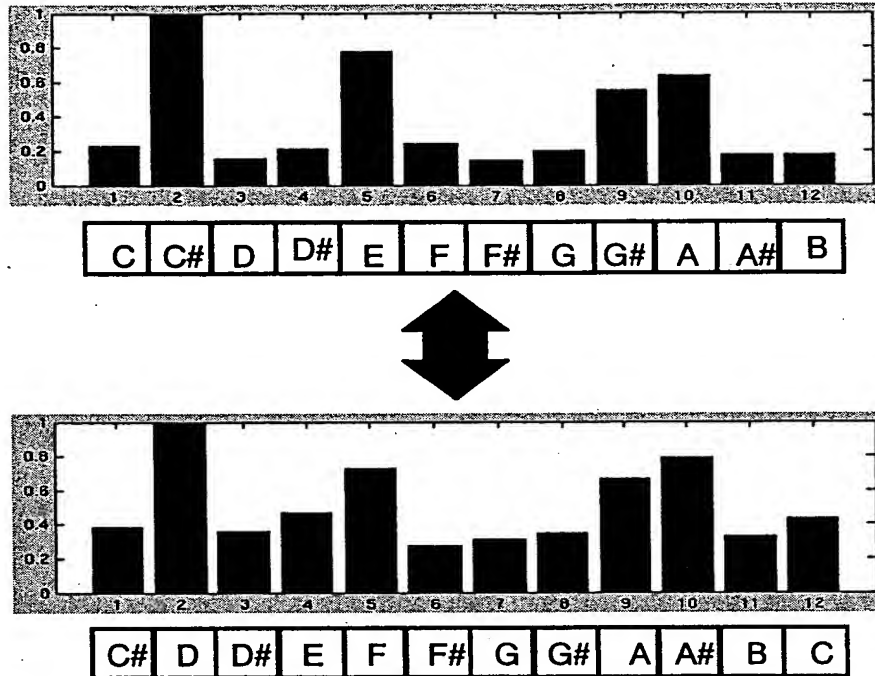


Fig.36



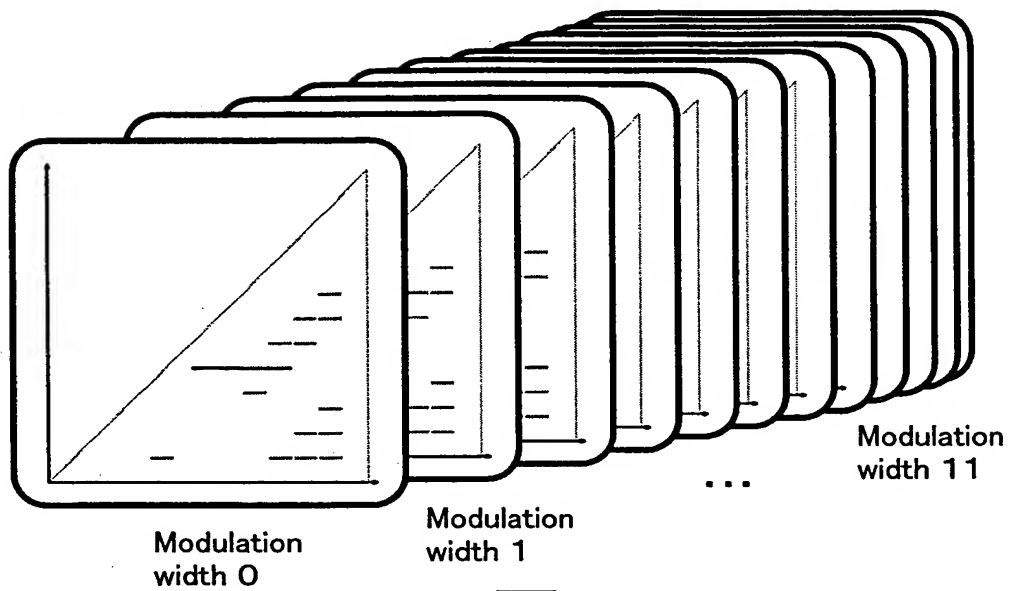
Chroma vector of a chorus shifted up by a semitone

Fig.37



Modulation width 1: one shift

Fig.38



Integrate groups of similarity line segments.

Fig.39

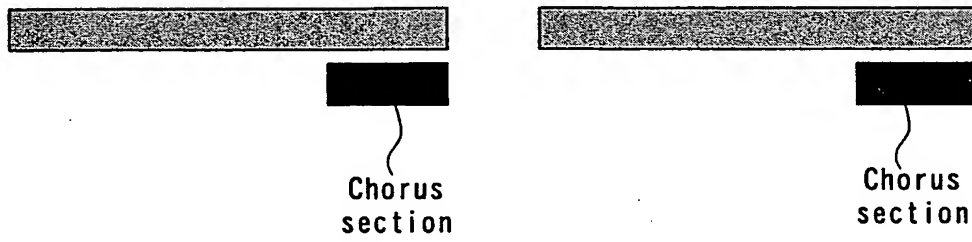
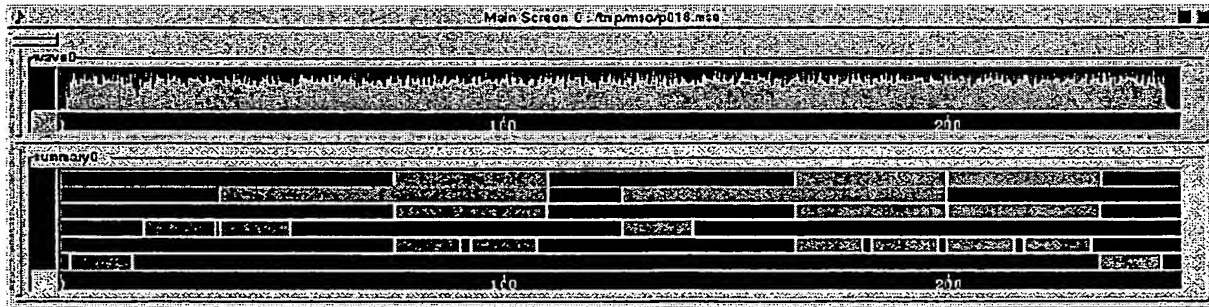


Fig.40



Fig.41



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